Full Specifications of Dimak Bulletproof Doors

Engineered and manufactured in accordance with internationally recognized ballistic protection standards. Available ballistic classes:

- EN 1522 / 1523: FB4, FB5, FB6, FB7
- UL 752: Level 4, Level 5, Level 6, Level 8 (optional)

All ballistic configurations are certified against high-velocity handgun and rifle threats, depending on selected protection level. Doors are specifically designed for:

- Banks and financial institutions
- Military and governmental facilities
- Safe rooms and panic rooms
- Cash handling & security zones
- Data and server protection rooms

Full ballistic integrity is maintained across the door leaf, frame, hinges, locking system, and accessories, ensuring no weak points across the assembly.

Construction & Frame System

Frame Types

- Corner Frame
- Full Frame
- Block Frame (additional slat for ensuring closure between frame and wall)

Material

- Constructed from 1,5 mm galvanized sheet metal, reinforced with internal armored ballistic steel slats.
- The internal armored steel structure is flexible 3mm and up to to 14,5 mm steel sheets (depending on ballistic level)

Fixation to Structure

- Frame fixed to reinforced concrete using minimum 12 to 20 anchor points
- Anchor count increases depending on door size and ballistic level
- Anchoring is done using concrete dowels

Wall Engagement

- If the frame type is corner or full frame, the frame architrave presses on the wall by 30mm on the attack side of the wall for improved ballistic bonding and to eliminate potential penetration points.
- For block frame, as the frame to wall engagement may have some weak points, armored ballistic slats all around the frame are used.

Door Leaf Specifications

Leaf Thickness:

- Standard: 67–80 mm (depending on ballistic grade)

Internal Construction:

- The outside layer is 0,8 mm galvanized steel.
- The inside is composed of ballistic armored steel plate, and parallel grained spruce veneers construction, with gaps filled with rockwool insulation. The construction creates a rigid connection between the ballistic plate and the hinges.

Weight:

- Approx. 150–350 kg per leaf (varies by protection level)

Surface Finish:

- Electrostatic powder coating with any RAL color

Hinges:

- Heavy-duty, security-rated hinges
- 3–4 hinges per leaf, depending on door weight
- From FB4 to FB6, standard hinges can be used, but for FB7 resistance levels, custom hinges are used.

Locking & Access Mechanism

Single Leaf Door

Locking Points:

- 2-point locking
- One main lock and additional safety lock (the two locks are operated separately)

Operation:

- Manual locking handle activates the main lock point
- Additional security lock used, with 3 pin locking mechanism
- Cylinder lock or access control can be integrated

Double Leaf Door

Main Leaf:

- 2-point locking
- One main and additional security lock, with separate cylinder mechanisms for safety

Secondary Leaf:

- 2 flush bolts

Optional Accessory Upgrades

- Panic bar
- Electromagnetic lock preparation
- High-security cylinders and reinforced strike plates
- Door constructed according to accessory preference

Sealing, Insulation & Additional Options

Sealing:

- Fire-resistant intumescent seals (optional)
- Acoustic & smoke seals available upon request

Insulation:

- Rockwool or mineral wool insulation core, increasing sound and thermal performance

Hardware Finish:

- Galvanized and corrosion-resistant hardware standard
- The attack side handle & rosette are manufactured from armored steel for protection of the locking mechanisms from bullet damage

Glazing Options:

- Ballistic-rated view window
- Available in BR4–BR7 levels

Notes on Customization

For non-standard sizes, customization can include:

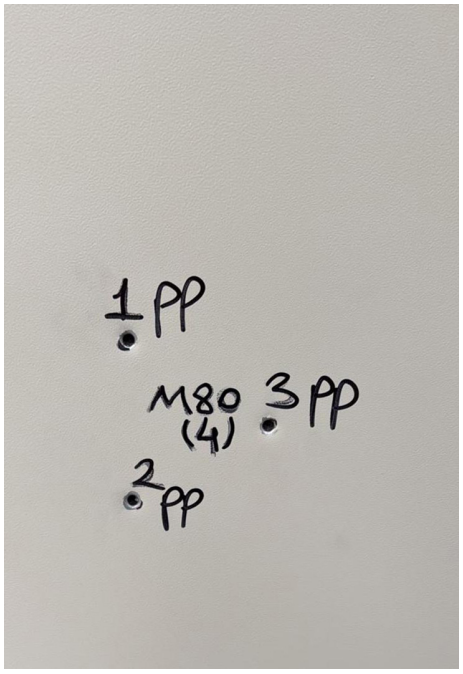
- Reinforced frame structures
- Increased number of hinges and locking rods
- Additional ballistic layers
- Structural recalculation for frame and door leaf
- CAD-based finite element simulation for high ballistic classes

Summary of Key Features

Feature	Specification
Ballistic Standard	EN 1522 / 1523: FB4–FB7, UL 752: Level 4–8
Frame Material	Galvanized steel plates + ballistic steel plates
Leaf Thickness	67–80mm
Locking System	2-point locking mechanism, separately operated
Hinges	Heavy-duty hinges (3–4 per leaf)
Fixation	12–20 anchor points
Surface Treatment	Electrostatic powder coating (RAL)
Access Control	Magnetic lock & electronic system ready
Optional Glazing	Ballistic glass (BR4-BR7)

All modifications maintain full ballistic integrity in accordance with the selected protection level.

Technical Drawing and Pictures

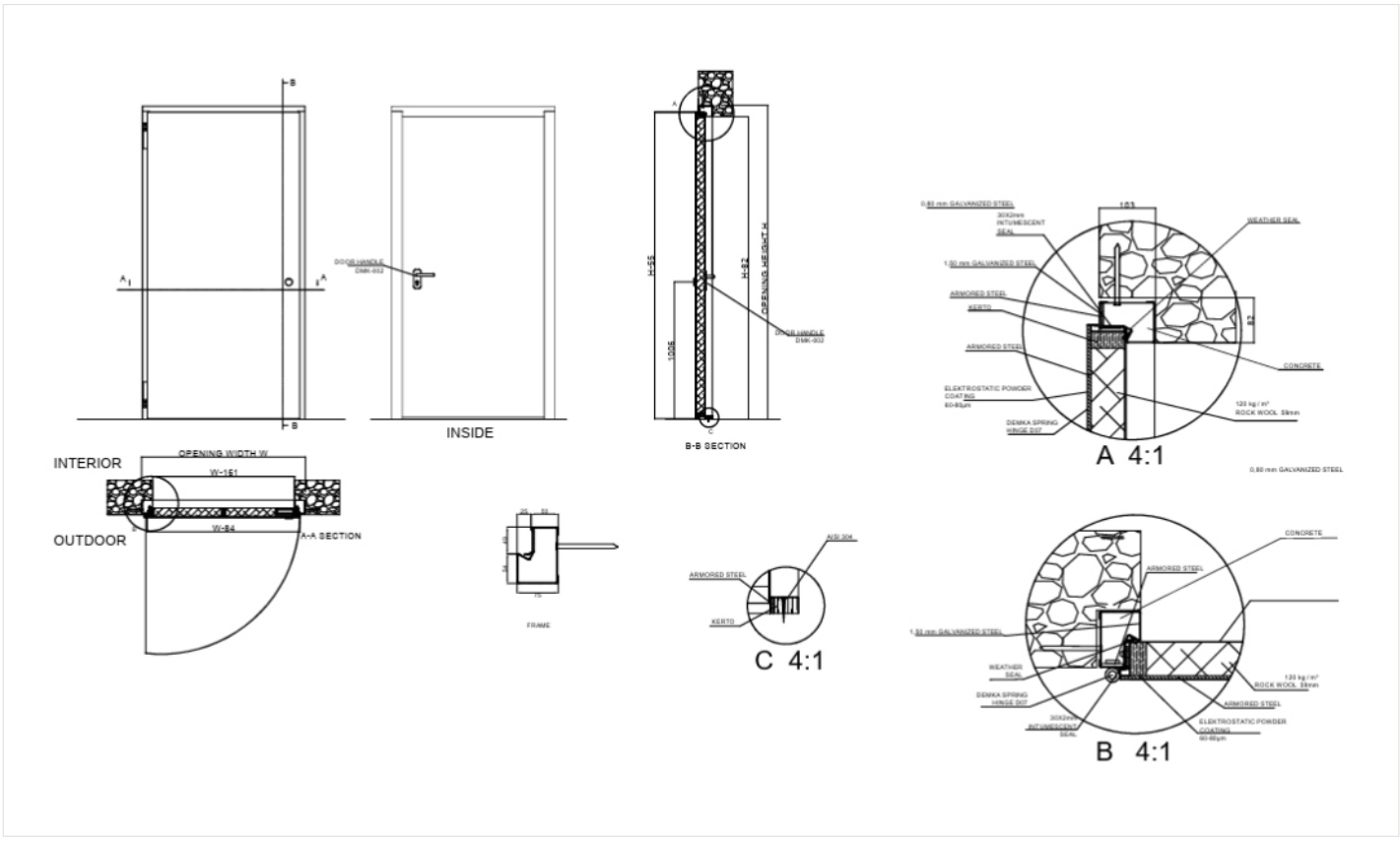


Dimak Bulletproof Door Pictures

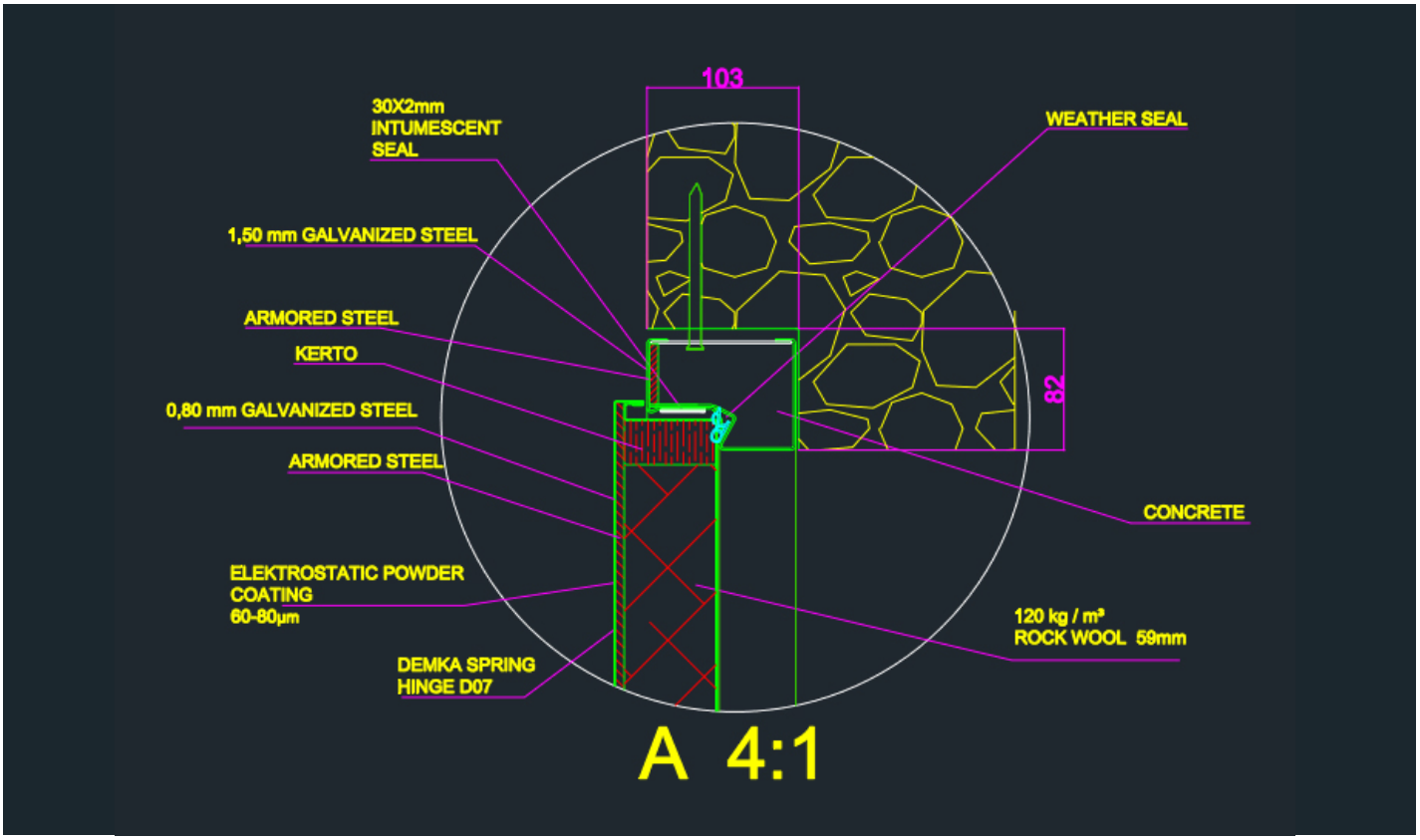
Class	Weapon		Bullet				
EN 1522-1523	Weapon Type	Picture	Caliber	Picture	Shape	Structure	Weight
FB1	Rifle		22LR		Round nose	Lead	2,6
FB2	Automatic Pistol		9 mm luger		Round nose	• Full steel jacket • Soft core (lead)	8
FB3	Hand gun		357 magnum		Coned bullet	• Full steel jacket • Soft core (lead)	10,2
FB4	Hand gun		44 Rem. Magnum		Flat nose	• Full steel jacket • Soft core (lead)	15,6
AK47	Kalachnikov		7.62 x 39		Pointed	• Full steel jacket • Soft core (steel) (niv. 2)	8
FB5	Assault rifle		5.56 x 45		Pointed	• Copper jacket • Steel core • Steel penetrator	4
FB6	Rifle		7.62 x 51		Pointed	• Full metal jacket • Soft core (lead)	9,5
FB7	Rifle		7.62 x 51		Pointed	• Copper jacket • Steel hard core	9,8
FSG	Hunting Rifle		12/70			• Brenneke	31

Bulletproof Rating Table

Technical Drawing and Pictures



Dimak Bulletproof Door Technical Drawing



Dimak Bulletproof Door Detailed Drawing